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     (FILE 'HOME' ENTERED AT 16:01:15 ON 30 JUN 2002)

     FILE 'REGISTRY' ENTERED AT 16:01:18 ON 30 JUN 2002
L1           882 (5<NI<95 AND 5<PT<95)/MAC

     FILE 'HCAPLUS' ENTERED AT 16:01:49 ON 30 JUN 2002
L2           721 L1
L3         38520 (NICKEL OR NI) AND (PT OR PLATINUM)
L4           620 L2 AND L3
L5            20 POWDER? AND L4

     FILE 'ZCA' ENTERED AT 16:03:10 ON 30 JUN 2002

     FILE 'HCAPLUS' ENTERED AT 16:14:01 ON 30 JUN 2002
                SELECT L5 PN 1-

     FILE 'WPIDS' ENTERED AT 16:14:33 ON 30 JUN 2002
L6           13 E1-35
                SELECT L6 IPC 1-
L7       113853 E36-88 NOT L6
L8           545 L7 AND L3 AND POWDER?
L9            33 L3/TI AND L8

     FILE 'USPATFULL, USPAT2' ENTERED AT 16:16:48 ON 30 JUN 2002
L10          81 L1
L11          80 L10 AND L3
L12          65 L3/CLM AND L11
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AN 2000:277738 HCAPLUS
DN 132:297138
TI Thermal-barrier coating system with aluminide interlayer on superalloy for gas-turbine service
IN Beele, Wolfram; Van Lieshout, Astrid Helennia Francoise; Marijnissen, Gillion Herman; Maxwell, Douglas Hugh
PA N.V. Interturbine, Neth.
SO Eur. Pat. Appl., 15 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 995817	A1	20000426	EP 1999-308241	19991019
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI US 1998-174864		19981019		

AB The superalloy turbine blades and similar parts are precoated with ceramic thermal barrier, using as the bonding interlayer the Cr-free aluminide alloy contg. Al 10-30, a precious metal 2-60, reactive metals (as Y, Zr, Hf, Sc, and/or rare-earth metal) .ltoreq.3%, and the balance as **Ni**, Co, and/or Fe. The bonding alloy preferably contains Al 20-25, **Pt** 30-40, Y 0.2-0.4, and Zr 0.03-0.06%. The bonding-alloy **powder** is typically applied by plasma spray as the coating <90 .mu.m thick on a superalloy substrate, followed by the formation of Al2O3 top film interlayer, and the deposition of top ceramic coating as thermal barrier having a columnar structure. The ceramic layer for thermal barrier is preferably Y2O3-stabilized ZrO2.

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

AN 1987:411629 HCAPLUS
DN 107:11629
TI Metallic **powder** mixtures for joining nonoxide ceramics
IN Hoshizaki, Hironori; Suzuki, Hirobumi; Kageyama, Terutaka
PA Nippondenso Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 61291939	A2	19861222	JP 1985-131190	19850617
	JP 07091610	B4	19951004		
	US 4764435	A	19880816	US 1986-874996	19860616
PRAI	JP 1985-131190		19850617		

AB The brazing mixts. contain **Pt**, Pd, Rh, Ir, Ru, and/or Os 2-70 wt.%; Cr, Mn, Fe, Co, **Ni**, and/or Cu 30-98 wt.%; and B, C, Si, and/or P 1-30 wt.%. A TiC and Kovar alloy parts were joined with a braze contg. **Pt** 25, Cr-17 at.% **Ni** alloy 62, and P 13 at.% by heating at 1200.degree. for 30 min. Max. torque for breaking the joint was 35 kg-cm. A ceramic heater was similarly joined to Kovar alloy electrodes. The joints had low elec. resistance (0.33-0.36 .OMEGA.), and were resistant to heat and thermal shock.